WAC 197-11-960 Environmental **checklist.**

ENVIRONMENTAL CHECKLIST

Purpose of checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:
   General Hydraulic Project Approval for Type F Water Crossings
2. Name of applicant:
   Green Diamond Resource Company
3. Address and phone number of applicant and contact person:
   PO Box 9001; 215 North Third Ave, Shelton WA 98584
   Eric Beach (360) 427-4790

4. Date checklist prepared:
12/29/2009

5. Agency requesting checklist:
Washington Department of Fish and Wildlife

6. Proposed timing or schedule (including phasing, if applicable):
2010 through 2020

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
   Yes as the program will be implemented under an adaptive management framework, it is likely that work covered by the general permit may be revised as the program matures. Future adjustments must be agreed to by both parties.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Memorandum of Agreement (MOA) with articulated Best Management Practices (BMP) with the Department of Fish and Wildlife outlining in detail the requirements, expectations and implementation guidelines for the general permit.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No

10. List any government approvals or permits that will be needed for your proposal, if known.

Hydraulic Project Approval (HPA) from the Department of Fish and Wildlife and a Class III Forest Practices Application from the Department of Natural Resources

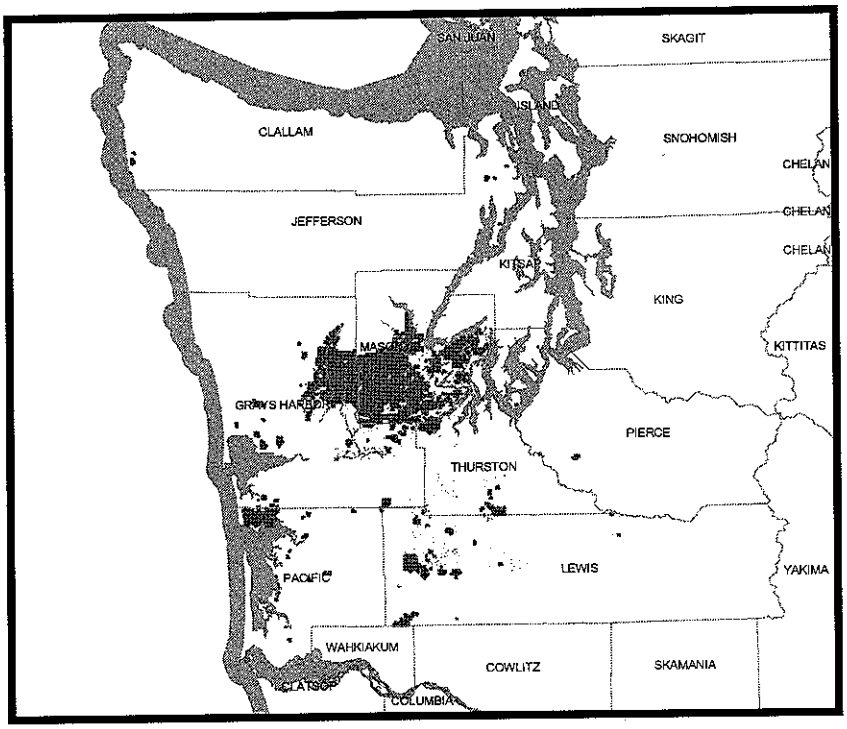
11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

General HPA for installation, removal and maintenance of water crossing structures for forest roads on Type F streams

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

Green Diamond Resource Co timberlands in western Washington covering ~320,000 acres found in WDFW regions 5&6. The General Permit will be for GDRCo lands located in western Washington found within the jurisdictional boundaries of WDFW Region 5 & 6. This will include the ~280,000 acres within the HCP area as well as ~ 12,000 acres located west of Highway 101 in the North and Johns River drainages and ~18,000 in Lewis County in the Chehalis basin. Ownership is found in Lewis, Pacific, Thurston, Mason and Gray Harbor Counties

See map below for specific property ownership (in green shade).



TO BE COMPLETED BY APPLICANT

AGENCY USE ONLY

B. ENVIRONMENTAL ELEMENTS

1. **Earth**

a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other . . . . . .

Forest road crossings (i.e. bridges and culverts) of Type F waters on GDRCo timberlands in western Washington (WDFW regions 5 and 6) The General Permit will be for GDRCo lands located in western Washington found within the jurisdictional boundaries of WDFW Region 5 & 6. This will include the ~280,000 acres within the HCP area as well as ~ 12,000 acres located west of Highway 101 in the North and Johns River drainages and ~18,000 in Lewis County in the Chehalis basin.

Although two different HCP's (Olympic Tree Farm and FFR) regulate land management on the permit area, GDRCo road management and associated road stream crossing BMP's are consistent across the ownership. The meteorological conditions are generally consistent across this landscape; cool wet winters, dry summers. Dominant land cover is evergreen conifer forest. Geologies are marine sediments and Crescent basalts as well as areas at the southern terminus of the last glacial advance. The prescriptions within this document are appropriate for these environmental conditions.

b. What is the steepest slope on the site (approximate percent slope)?
< 20%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.
Soils will generally be alluvial in proximity to the channel, surrounding areas have soils of glacial till/outwash, basalts or marine sediment origin.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.
No, such conditions will be covered under a separate Class IV special Forest Practices Application and an individual Hydraulic Project Approval and thus are not covered by the General HPA.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
Filling or grading will be accomplished only as necessary for the installation or removal of stream crossing structures as described in the BMP's. Specific quantities will be determined on a project by project basis with the outcome being a stable, functional road prism which addresses our Forest and Fish requirements for fish passage and water quality improvements.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
Specific erosion avoidance, control and mitigation actions are described in the BMP. Generally, all crossings shall be designed and constructed to pass a 100 year peak flow with consideration of debris likely to be encountered. Have diversions in place before excavating, or at least before removing existing culverts. Establish a competent culvert bed. Compact fills in 2 foot lifts. Manual compaction may be required adjacent to culverts to ensure proper strength and prevent water infiltration. Fill over culvert will be equal to at least half pipe diameter but never less than 1 foot. Install erosion control and sediment reduction measures on exposed soils upon project completion or in advance of anticipated rain event. Alteration or disturbance of the bank and vegetation shall be limited to that necessary to construct the project. Affected bed and bank areas outside the project vicinity shall be restored to pre-project condition following project completion e.g.

- **Regrade to natural contours**
- **Clean up and revegetate storage and access points**
- **Remove unnecessary fill, revegetate remaining fill slopes with native vegetation**
- **Control invasive species**
- **Restore wood loading of the channel consistent with reach conditions**

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Limited to the bridge deck surface if a bridge is the structure in question at the site, otherwise 0% Generally, bridges covered under the General permit will be small in size, as they are required to be fully spanning structures, and the structures will range between one lane and two lanes in width. The approaches will be traditional gravel logging roads designed to divert stormwater away from surface waters.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Erosion control measures will be implemented on exposed soils upon project completion or in advance of anticipated rain events, using wheat straw blankets, hydro-mulch, vegetation, or other means This typically includes grass seed and straw; installing catch basins, surface bars, and other structures. Alteration or disturbance of the bank and vegetation shall be limited to that necessary to construct the project. Affected bed and bank areas outside the project vicinity shall be restored to pre-project condition following project completion e.g.

These measures are described in further detail within the BMP's of the Regional General Permit MOA.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Limited to diesel exhaust from construction equipment during site excavation and installation of water crossing structure

b. Are there any off-site sources of emissions or odor that may affect your proposal? **No** If so, generally describe.

c. Proposed measures to reduce or control emissions or other impacts to air, if any: **None**

3. **Water**

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.
Yes, Type F streams; either seasonal or perennial fish bearing channels

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes, all of the work covered under the general permit will take place over, in or adjacent to Type F waters. All plans and specifications described within the MOA/BMP document will be followed. Plans for water crossing structures will follow the WDFW "Design of Road Culverts for Fish Passage". Additionally, individual plans for each project will be submitted to WDFW through the Department of Natural Resources FPARS system. This information will provide WDFW staff to determine coverage under the general permit or if an individual HPA will be required. Green Diamond Company is committed to submitting "as-built" designs which are not currently required in the Washington Administrative Code (WAC) along with participating in an effectiveness monitoring program with WDFW and the affected Tribes to ensure compliance with the general HPA and modify the process through adaptive management.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

Surface water diversion during in channel phase of construction if required In the event that only hand tools (come-along, chain saw winch, etc.) are used to conduct the activity, or the stream channel is dry during construction, no dewatering or bypass is necessary Dewatering of the construction site itself is typically necessary because culverts are installed below the normal water table at the site. It is critical to keep these sites dry so the culvert bed can be surveyed and compaction assured along the culvert. For culvert installation sites, divert stream flows around the project site when working within the wetted perimeter. Slowly drain wetlands prior to commencing construction. Work in wetlands may be accomplished without dewatering or diversion. For new bridge installation sites and where no in-channel work is required, no dewatering is required.

When diversion is required, a temporary bypass to divert flow around the work area will be in place prior to initiation of work in the wetted perimeter. Sandbagging and hard pipe flumes or pumping will be the approved diversion method. Other methods may be utilized if a positive separation can be maintained between the work area and waters of the state (BMP Figure 12.)

Keep clean water clean by diverting before the stream enters the construction site. Discharge clean diverted water back into the channel downstream as close as possible to keep flows at normal levels, hence reducing fish collection efforts. Construction site dewatering (i.e. "wastewater") is typically dirty water that cannot be discharged directly into state waters. Place pump outlets at a sufficient distance from the stream channel to allow natural vegetation to filter sediments before water reaches the channel. The diversion relief and de-watering discharge point will be designed and operated so as not to cause erosion or scour in the stream channel, banks or vegetation. Prior to releasing the water flow to the project area, all bank protection or armoring will be completed. Upon completion of the project, all material used in the temporary bypass will be removed from the site and the site returned to pre-project or improved conditions. Reintroduction of water to the channel will be done gradually and in stages so as to minimize the mobilization of sediments and fines into downstream waters. Wastewater pumps shall remain in place and active to filter the first flush at the downstream end of the project.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

Potentially yes, varies by site. However, culverts are designed to pass the 100 yr flow so the floodplain will be waterward of the culvert project, which account for the majority of work accomplished under the general HPA. Other work such as road abandonments required the removal of fills and debris from the floodplain. Bridge components that are within the flood prone width or the channel migration zone, may not affect stream function.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No

b. Ground:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

No

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve. **None**

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Limited to approaches to bridge deck if such a structure is installed, otherwise, none. Roads and stream crossings are designed to prevent direct discharge of stormwater to surface waters.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No, work is typically completed during the dry months, this combined with our erosion control measures will ensure that wastewater is not delivered to surface or groundwater. GDRCo also has a spill response plan in place for dealing with any discharge of vehicle fluids (e.g. hydraulic fluid) that might occur during construction- such spills are unlikely and containment equipment and supplies will be onsite.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

Erosion control measures will be implemented on exposed soils upon project completion or in advance of anticipated rain events, using wheat straw blankets, hydro-mulch, vegetation, or other means. This typically includes grass seed and straw; installing catch basins, surface bars, and other structures.

4. **Plants**

a. Check or circle types of vegetation found on the site:

X_____ deciduous tree: alder, maple, aspen, other

X_____ evergreen tree: fir, cedar, pine, other

X_____ shrubs

X_____ grass

_____ pasture

_____ crop or grain

_____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other

_____ water plants: water lily, eelgrass, milfoil, other

_____ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Overstory trees, shrubs, forbs and grasses may be disturbed during the installation of bridge abutments, culvert placement or removal or road fill placement. Generally, alteration or disturbance of the bank and vegetation shall be limited to that necessary to construct the project. Affected bed and bank areas outside the project vicinity shall be restored to pre-project condition following project completion e.g.

- **Regrade to natural contours**
- **Clean up and revegetate storage and access points**
- **Remove unnecessary fill, revegetate remaining fill slopes with native vegetation**
- **Control invasive species**
- **Restore wood loading of the channel consistent with reach conditions**

c. List threatened or endangered species known to be on or near the site. **None**

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Sites will be revegetated per BMP (and in compliance with WAC 222)

5. **Animals**

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: **hawk, heron, eagle**, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, **salmon, trout**, herring, shellfish, other:

b.List any threatened or endangered species known to be on or near the site.
Several salmonid stocks (e.g. Hood Canal summer chum, bull trout, Puget Sound Chinook) occur within waters

c. Is the site part of a migration route? If so, explain.

Insomuch as spawning salmon may use streams covered under this permit to return to spawning grounds

d. Proposed measures to preserve or enhance wildlife, if any:
The permit limits in-stream work to periods of time where spawning adults and or juveniles in the gravel are absent. The expected outcome of the general permit is a facilitated fish passage structures replacement, abandonment or new structures which will restore fish migration to previous blocked habitat and ensure that new structures do not impact fish passage.

6. **Energy and natural resources**

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. **diesel fuel**

b. Would your project affect the potential use of solar energy by adjacent properties? **No** If so, generally describe.

c. What kinds of energy conservation features are included in the plans of this proposal? **None** List other proposed measures to reduce or control energy impacts, if any:

7. **Environmental health**

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? **No** If so, describe.
1) Describe special emergency services that might be required.

2) Proposed measures to reduce or control environmental health hazards, if any:

b. **Noise**

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?
Equipment engine noise

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? **Light vehicle and log truck traffic noise**. Indicate what hours noise would come from the site. **Early morning to mid afternoon**

3) Proposed measures to reduce or control noise impacts, if any: **None**

8. **Land and shoreline use**

a. What is the current use of the site and adjacent properties? **Industrial timberland**

b. Has the site been used for agriculture? **Lands are historically forested** If so, describe.

c. Describe any structures on the site. **None in vicinity of stream crossings**

d. Will any structures be demolished? **No** If so, what?

e. What is the current zoning classification of the site? **Forestry**

f. What is the current comprehensive plan designation of the site? **Forestry**

g. If applicable, what is the current shoreline master program designation of the site?
Conservancy (Forestry waiver) However, the General HPA does not cover Type S waters which are a Shorelines Management Act (SMA) trigger. Such projects will be covered by individual HPAs upon completion of SEPA and issuance of a shoreline permit.

h. Has any part of the site been classified as an "environmentally sensitive" area? **No** If so, specify.

i. Approximately how many people would reside or work in the completed project? **0**

j. Approximately how many people would the completed project displace? **0**

k. Proposed measures to avoid or reduce displacement impacts, if any: **none**

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: Copy(s) of

MOU/BMP provided to the planning organizations in the Counties where the permit is used (Lewis, Pacific, Grays Harbor, Mason, Thurston). The HPA does not cover stream crossings on waters covered under the SMA

9. **Housing**

a. Approximately how many units would be provided, if any? **0** Indicate whether high, middle, or low-income housing.

b. Approximately how many units, if any, would be eliminated?**0** Indicate whether high, middle, or low-income housing.

c. Proposed measures to reduce or control housing impacts, if any:**0**

10. **Aesthetics**

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? **2-3' above road surface level**

b. What views in the immediate vicinity would be altered or obstructed? **None**

c. Proposed measures to reduce or control aesthetic impacts, if any: **None**

11. **Light and glare**

a. What type of light or glare will the proposal produce? **None** What time of day would it mainly occur?

b. Could light or glare from the finished project be a safety hazard or interfere with views? **No**

c. What existing off-site sources of light or glare may affect your proposal? **No**

d. Proposed measures to reduce or control light and glare impacts, if any: **No**

12. **Recreation**

a. What designated and informal recreational opportunities are in the immediate vicinity?
Non- motorized outdoor activities e.g. hunting, fishing, and hiking

b. Would the proposed project displace any existing recreational uses? **No** If so, describe.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: **None**

13. **Historic and cultural preservation**

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe. **No**

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site. **Not applicable**

c. Proposed measures to reduce or control impacts, if any: **None.**

However, the Department of Natural Resources will also screen our individual FPAs for historic, archaeological, scientific, or culturally important areas prior to classifying the FPA and thus prior to WDFW authorizing coverage under the general HPA.

14. **Transportation**

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any. **Not applicable**

b. Is site currently served by public transit? **No** If not, what is the approximate distance to the nearest transit stop?

c. How many parking spaces would the completed project have? **Not applicable** How many would the project eliminate?

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private). **No**

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? **No** If so, generally describe.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur. **Not applicable**

g. Proposed measures to reduce or control transportation impacts, if any: **None**

15. **Public services**

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? **Not applicable** If so, generally describe.

b. Proposed measures to reduce or control direct impacts on public services, if any. **Not applicable**

16. **Utilities**

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other. **Not applicable**

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed. **Not applicable**

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: .....

Date Submitted: 1/21/10